

APPENDIX A

APPENDIX A

DEGREE FIELDS AND OCCUPATIONAL CATEGORIES IN SESTAT

SESTAT uses six broad educational fields and six broad occupational categories with these fields and categories further subdivided (appendix table 1).

Appendix Table 1. SESTAT educational fields and occupational categories

Page 1 of 5

Major educational field	Minor groups of disciplines, and subdisciplines	Major occupational category	Minor categories of occupations, and subcategories
SCIENCE AND ENGINEERING			
Computer & Mathematical Sciences	Computer & information sciences Computer & information sciences Computer science Computer systems analysis Information services & systems Other computer & information sciences Mathematical Sciences Applied mathematics Mathematics, general Operations research Statistics Other mathematical sciences	Computer & Mathematical Scientists	Computer & Information Scientists Computer systems analysts Computer scientists, except systems analysts Information systems scientists & analysts Other computer & information science occupations Computer engineers - software Mathematical Scientists Mathematicians Operations research analysts, modelling Statisticians Other mathematical scientists Postsecondary teachers - computer & mathematical sciences Postsecondary teachers - computer science Postsecondary teachers - mathematics
Life & related sciences	Agricultural & food sciences Animal sciences Food sciences & technology Plant sciences Other agricultural sciences Biological Sciences Biochemistry & biophysics Biology Botany Cell & molecular biology Ecology Genetics, plant & animal Microbiology Nutritional science Pharmacology, human & animal Physiology, human & animal Zoology Other biological sciences Health & related (these fields are included under the life sciences for doctoral programs only) Audiology & speech pathology Health services administration Health & medical assistants Health & medical technologies Medical preparatory programs Medicine Nursing, 4 years or longer programs	Life Scientists	Agricultural & food scientists Agricultural & food scientists Biological scientists Biochemists & biophysicists Biological scientists Medical scientists, except practitioners Other biological & life scientists Environmental life scientists Forestry & conservation scientists Postsecondary teachers - life & related sciences Postsecondary teachers - agriculture Postsecondary teachers - biological science Postsecondary teachers - medical science Other postsecondary teachers - natural science

See explanatory information and SOURCE at end of table.

Appendix Table 1. SESTAT educational fields and occupational categories

Page 2 of 5

Major educational field	Minor groups of disciplines, and subdisciplines	Major occupational category	Minor categories of occupations, and subcategories
SCIENCE AND ENGINEERING (continued)			
	Pharmacy Physical therapy & other rehab. Public health, including environment Other health & medical sciences Environmental life sciences Environmental science studies Forestry services		
Physical & related sciences	Chemistry, except biochemistry Chemistry, except biochemistry Earth science, geology & oceanography Atmospheric sciences & meteorology Earth sciences Geology Other geological sciences Oceanography Physics & Astronomy Physics Astronomy & astrophysics Other physical sciences Other physical & related sciences	Physical Scientists	Chemists, except Biochemists Chemists, except Biochemists Earth scientists, geologists & oceanographers Atmospheric & space scientists Geologists Oceanographers Physicists & astronomers Astronomer Physicists Other physical scientists Other physical & related scientists Postsecondary teachers - physical & related sciences Postsecondary teachers - chemistry Postsecondary teachers - physics Postsecondary teachers - earth, environmental, & marine science
Social & related sciences	Economics Agricultural economics Economics Political & related sciences Public policy studies International relations Political science and government Psychology Educational psychology Clinical psychology Counseling psychology Experimental psychology Psychology, general Industrial and organizational psychology Social psychology Other psychology	Social Scientists	Economists Economists Political & related scientists Political & related scientists Psychologists Psychologists Sociologists & anthropologists Anthropologists Sociologists Other social & related scientists Historians, science & technology Other social scientists Postsecondary teachers - social sciences

See explanatory information and SOURCE at end of table.

Appendix Table 1. SESTAT educational fields and occupational categories

Page 3 of 5

Major educational field	Minor groups of disciplines, and subdisciplines	Major occupational category	Minor categories of occupations, and subcategories
SCIENCE AND ENGINEERING (continued)			
	Sociology & anthropology Anthropology & archaeology Criminology Sociology Area & ethnic studies Linguistics Philosophy of science Geography History of science Other social sciences Other social sciences		Postsecondary teachers - economics Postsecondary teachers - political science Postsecondary teachers - psychology Postsecondary teachers - sociology Postsecondary teachers - other social sciences
Engineering	Aerospace & related engineering Aerospace, aeronautical & astronautical Chemical engineering Chemical engineering Civil & architectural engineering Architectural engineering Civil engineering Electrical & related engineering Computer & systems engineering Electrical, electronics & communications engineering Industrial engineering Industrial engineering Mechanical engineering Mechanical engineering Other engineering Agricultural engineering Bioengineering & biomedical engineering Engineering sciences, mechanics and physics Environmental engineering Engineering, general Geophysical engineering Materials engineering, including ceramics & textiles Metallurgical engineering Mining & minerals engineering Naval architecture and marine engineering Nuclear engineering Petroleum engineering Other engineering	Engineers	Aerospace & related engineers Aerospace & related engineers Chemical engineers Chemical engineers Civil & architectural engineers Civil engineers Electrical & related engineers Computer engineers - hardware Electrical & electronics engineers Industrial engineers Industrial engineers Mechanical engineers Mechanical engineers Other engineers Agricultural engineers Bioengineers & biomedical engineers Environmental engineers Marine engineers or naval architects Materials & metallurgical engineers Mining & geological engineers Nuclear engineers Petroleum engineers Sales engineers Other engineers Post-Secondary teachers - engineering Postsecondary teachers - engineering

See explanatory information and SOURCE at end of table.

Appendix Table 1. SESTAT educational fields and occupational categories

Page 4 of 5

Major educational field	Minor groups of disciplines, and subdisciplines	Major occupational category	Minor categories of occupations, and subcategories
NON-SCIENCE AND ENGINEERING			
Non-S&E disciplines	Management & administration Agricultural business & production Accounting Business administration & management Business, general Business & managerial economics Financial management Other business management/administrative services Health & related (these fields are included in Non-S&E for bachelor's and master's programs only) Audiology & speech pathology Health services administration Health & medical assistants Health & medical technologies Medical preparatory programs Medicine Nursing, 4 years or longer programs Pharmacy Physical therapy & other rehab. Public health, including environment Other health & medical sciences Teaching & Education Education administration Computer teacher education Counselor education & guidance Elementary teacher education Mathematics teacher education Physical education & coaching Pre-elementary teacher education Science teacher education Secondary teacher education Special education Social science teacher education Other education Social service & related Social work Other philosophy, religion, theology Technology & technical Computer programming Data processing technology Electrical & electronics technologies	Non-S&E occupations	Managers & administrators Top and mid-level managers, executives, administrators Accountants, auditors, & other financial specialists Personnel, training & labor relations specialists Other management related occupations Health related occupations Diagnosing & treating health practitioners Registered nurses, pharmacists, dieticians, therapists, etc. Health technologists & technicians Other health occupations Teachers, except S&E postsecondary teachers Teachers - pre-kindergarten & kindergarten Teachers - elementary school Teachers, secondary - computer, math or science Teachers - social sciences Teachers - other subjects Teachers - special education Teachers - other precollegiate education Non-S&E postsecondary teachers Postsecondary teachers - art, drama, & music Postsecondary teachers - business, commerce, & marketing Postsecondary teachers - education Postsecondary teachers - English Postsecondary teachers - foreign language Postsecondary teachers - history Postsecondary teachers - home economics Postsecondary teachers - law Postsecondary teachers - physical education Postsecondary teachers - social work Postsecondary teachers - theology Postsecondary teachers - trade & industrial Postsecondary teachers - other health specialties Postsecondary teachers - other, non-S&E not listed above Social services & related occupations Clergy & other religious workers Counselors, educational & vocational Social workers Technologists & technicians Technologists & technicians in bio & life sciences Computer programmers

See explanatory information and SOURCE at end of table.

Appendix Table 1. SESTAT educational fields and occupational categories

Page 5 of 5

Major educational field	Minor groups of disciplines, and subdisciplines	Major occupational category	Minor categories of occupations, and subcategories
NON-SCIENCE AND ENGINEERING (continued)			
	Industrial production technologies Mechanical engineering-related technologies Other engineering-related technologies Sales & marketing Business marketing/marketing management Marketing research Arts, humanities & related English language, literature & letters Other foreign languages & literature Liberal arts & general studies History Dramatic arts Fine arts Music Other visual & performing arts Other non-S&E Architecture & environmental design Other conservation, renewable natural resources Actuarial science Communications Journalism Other communications Criminal justice & protective services Home economics Law, pre-law, legal studies Library science Parks, recreation, leisure, & fitness studies Public administration Other public affairs Other fields not listed		Electrical, electronics, industrial, & mech. engg. techs. Drafting occupations Surveying & mapping engineering technicians Other engineering technologists & technicians Surveyors Technologists & technicians in mathematical sciences Technologists & technicians in physical sciences Sales & marketing occupations Sales/mrktg - insurance, securities, real estate & business services Sales occupations - commodities, except retail Sales occupations - retail Other marketing & sales occupations Art, humanities & related occupations Artists, editors, entertainers, public relations, writers Historians, except science & technology Other non-S&E occupations Accounting clerks & bookkeepers Secretaries, receptionists & typists Other administrative Architects Farmers, foresters & fishermen Lawyers & judges Librarians, archivists & curators Actuaries Food preparation & service workers Protective service workers Other service occupations, except health Construction trades, miners & well-drillers Mechanics & repairers Precision production occupations Operators & related occupations Transportation & material-moving occupations Other occupations

NOTE: The individual occupations included in SESTAT adhere to the Standard Occupational Classification (SOC), a U.S. government standard classification scheme. The SOC was developed through an interagency committee headed by the Office of Management and Budget. It is used by all the federal agencies that collect employment and occupational data, and was meant to provide comparability of data among different federal statistical agencies. The major and minor science and engineering groupings of occupations as shown on this table were developed by the National Science Foundation.

SOURCE: National Science Foundation, Division of Science Resources Studies.